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<input type="checkbox"/>	L4	carboxymethyllysine	61
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<input type="checkbox"/>	L1	(carboxymethyllysine OR CML)	4502

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**1:** Bar KJ, Franke S, Wenda B, Muller S, Kientsch-Engel R, Stein G, Sauer H. [Related Articles](#), [Links](#)  
**Pentosidine and N(epsilon)-(carboxymethyl)-lysine in Alzheimer's disease and vascular dementia.**  
*Neurobiol Aging.* 2003 Mar-Apr;24(2):333-8.  
 PMID: 12498967 [PubMed - indexed for MEDLINE]

**2:** Dei R, Takeda A, Niwa H, Li M, Nakagomi Y, Watanabe M, Inagaki T, Washimi Y, Yasuda Y, Horie K, Miyata T, Sobue G. [Related Articles](#), [Links](#)  
**Lipid peroxidation and advanced glycation end products in the brain in normal aging and in Alzheimer's disease.**  
*Acta Neuropathol (Berl).* 2002 Aug;104(2):113-22. Epub 2002 Jun 04.  
 PMID: 12111353 [PubMed - indexed for MEDLINE]

**3:** Gasic-Milenkovic J, Loske C, Deuther-Conrad W, Munch G. [Related Articles](#), [Links](#)  
**Protein "AGEing"--cytotoxicity of a glycated protein increases with its degree of AGE-modification.**  
*Z Gerontol Geriatr.* 2001 Dec;34(6):457-60.  
 PMID: 11828884 [PubMed - indexed for MEDLINE]

**4:** Castellani RJ, Harris PL, Sayre LM, Fujii J, Taniguchi N, Vitek MP, Founds H, Atwood CS, Perry G, Smith MA. [Related Articles](#), [Links](#)  
**Active glycation in neurofibrillary pathology of Alzheimer disease: N(epsilon)-(carboxymethyl) lysine and hexitol-lysine.**  
*Free Radic Biol Med.* 2001 Jul 15;31(2):175-80.  
 PMID: 11440829 [PubMed - indexed for MEDLINE]

**5:** Takeda A, Wakai M, Niwa H, Dei R, Yamamoto M, Li M, Goto Y, Yasuda T, Nakagomi Y, Watanabe M, Inagaki T, Yasuda Y, Miyata T, Sobue G. [Related Articles](#), [Links](#)  
**Neuronal and glial advanced glycation end product [Nepsilon-(carboxymethyl)lysine] in Alzheimer's disease brains.**  
*Acta Neuropathol (Berl).* 2001 Jan;101(1):27-35.  
 PMID: 11194938 [PubMed - indexed for MEDLINE]

**6:** Takeda A, Yasuda T, Miyata T, Goto Y, Wakai M, Watanabe M, Yasuda Y, Horie K, Inagaki T, Doyu M, Maeda K, Sobue G. [Related Articles](#), [Links](#)  
**Advanced glycation end products co-localized with astrocytes and microglial cells in Alzheimer's disease brain.**  
*Acta Neuropathol (Berl).* 1998 Jun;95(6):555-8.  
 PMID: 9650745 [PubMed - indexed for MEDLINE]

**7:** Horie K, Miyata T, Yasuda T, Takeda A, Yasuda Y, Maeda K, Sobue G, Kurokawa K. [Related Articles](#), [Links](#)  
**Immunohistochemical localization of advanced glycation end products, pentosidine, and carboxymethyllysine in lipofuscin pigments of Alzheimer's disease and aged neurons.**  
*Biochem Biophys Res Commun.* 1997 Jul 18;236(2):327-32.  
 PMID: 9240434 [PubMed - indexed for MEDLINE]

8: Takedo A, Yasuda T, Miyata T, Mizuno K, Li M, Yoneyama S, Horie K, Maeda K, Sobue G. [Related Articles](#), [Links](#)

Immunohistochemical study of advanced glycation end products in aging and Alzheimer's disease brain.

Neurosci Lett. 1996 Dec 27;221(1):17-20.

PMID: 9014170 [PubMed - indexed for MEDLINE]

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1: Neurosci Lett. 1996 Dec 27;221(1):17-20.

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### Immunohistochemical study of advanced glycation end products in aging and Alzheimer's disease brain.

Takedo A, Yasuda T, Miyata T, Mizuno K, Li M, Yoneyama S, Horie K, Maeda K, Sobue G.

Department of Neurology, Nagoya University, School of Medicine, Japan.

Advanced glycation end products (AGEs) in the brain were immunohistochemically examined in Alzheimer's disease (AD) and aging using anti-AGE antibody recognizing mainly carboxymethyllysine. AGE positive staining diffusely located in the neuronal perikarya of hippocampus and parahippocampus in AD and aged brains without dementia, but not in young brains less than 17 years of age. Extra-neuroperikaryal AGE deposits were also detected in the neuropil of AD and aged brains. The extra-neuroperikaryal AGE deposits markedly increased in AD brains as compared to aged brains. These AGE-positive deposits in the neuropil were not related to the senile plaque identified by anti-beta amyloid protein antibody. These findings suggest a potential link of AGE accumulation in the central nervous system to the aging process of neurons and the degenerating process of AD neurons.

PMID: 9014170 [PubMed - indexed for MEDLINE]

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 ELSEVIER SCIENCE  
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**Immunohistochemical localization of advanced glycation end products, pentosidine, and carboxymethyllysine in lipofuscin pigments of Alzheimer's disease and aged neurons.**

**Horie K, Miyata T, Yasuda T, Takeda A, Yasuda Y, Maeda K, Sobue G, Kurokawa K.**

Department of Internal Medicine, Nagoya University School of Medicine,  
Japan.

Lipofuscins are intracellular fluorescent pigments accumulating in the central nervous system (CNS) with aging and degenerative processes such as Alzheimer's disease (AD). Although they are thought to be lipid peroxidation products derived from malondialdehyde, their biogenesis remains controversial. We further characterize the chemical nature of lipofuscins in brain tissues from AD patients and normal aged subjects. Advanced glycation end products (AGEs), pentosidine and carboxymethyllysine (CML), were identified by appropriate specific antibodies. They have physicochemical properties similar to those of lipofuscin and also increase with aging. Pentosidine and CML were identified in the neuronal perikarya and the extraneuroperikaryal deposits of both the AD and aged brain. Pentosidine, but not CML, was present in the fiber-like structure within the neuropil and the core of classical senile plaque. In the brain of young subjects without CNS disease, pentosidine and CML staining was faint. Pentosidine and CML co-localized with lipofuscin pigments in the neuronal perikarya of both the AD and aged brain. We demonstrate for the first time that lipofuscin is constituted not only of lipid peroxidation products but also from glycation products which may be the origin of fluorescent pigments. Lipofuscins should thus be considered as fluorescent pigments generated by lipid- and sugar-derived Schiff base-protein polymers.

PMID: 9240434 [PubMed - indexed for MEDLINE]

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2004:93208 BIOSIS

PREV200400086400

Different mechanisms for anti-oxidative effects of anti-hypertensive agents.

Ueda, Yasuhiko [Reprint Author]; Miyata, Toshio [Reprint Author]; Inagi, Reiko [Reprint Author]; Masaomi, Nangaku; de Strihou, Charles van Ypersele; Kurokawa, Kiyoshi [Reprint Author]

Institute of Medical Sciences, Tokai University, Isehara, Kanagawa, Japan  
Journal of the American Society of Nephrology, (November 2003) Vol. 14, No. Abstracts Issue, pp. 226A. print.

Meeting Info.: Meeting of the American Society of Nephrology Renal Week. San Diego, CA, USA. November 12-17, 2003. American Society of Nephrology.  
CODEN: JASNEU. ISSN: 1046-6673.

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

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2003:263216 BIOSIS

PREV200300263216

Mechanism of the inhibitory effect of 2-isopropylidenehydrazone-4-oxo-thiazolidin-5-ylacetanilide on advanced glycation endproduct and advanced lipoxidation endproduct formation.

Ueda, Yasuhiko [Reprint Author]; Miyata, Toshio; Izuhara, Yuko; Inagi, Reiko; Tatsumi, Kunihiko; de Strihou, Charles van Ypersele; Nangaku, Masaomi; Kurokawa, Kiyoshi

Department of Medicine, Institute of Medical Sciences, Tokai University School of Medicine, Kanagawa, Japan

y-ueda@is.icc.u-tokai.ac.jp

Horiuchi, Seikoh [Editor, Reprint Author]; Taniguchi, Naoyuki [Editor]; Hayase, Fumitaka [Editor]; Kurata, Tadao [Editor]; Osawa, Toshihiko [Editor]. Int. Congr. Ser. - Excerpta Med., (2002) pp. 453-454. The Maillard reaction in food chemistry and medical science: Update for the postgenomic era. print.

Publisher: Elsevier Science B.V., Sara Burgerhartstraat 25, 1000 AE, P. O. Box 211, Amsterdam, Netherlands. Series: International Congress Series.

Meeting Info.: 7th International Symposium on the Maillard Reaction.

Kumamoto, Japan. October 29-November 01, 2001.

CODEN: EXMDA4. ISSN: 0531-5131. ISBN: 0-444-51034-6 (cloth).

Book; (Book Chapter)

Conference; (Meeting)

Conference; (Meeting Paper)

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2002:100372 BIOSIS

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AGEs bind to mesothelial cells via RAGE and stimulate VCAM-1 expression.

Boulanger, Eric; Wautier, Marie-Paule; Wautier, Jean-Luc [Reprint author]; Boval, Bernadette; Panis, Yves; Wernert, Nicolas; Danze, Pierre-Marie; Dequiedt, Philippe

Institut National de la Transfusion Sanguine, 6 Rue Alexandre Cabanel, 75739, Paris Cedex 15, France

wautier@ints.fr

Kidney International, (January, 2002) Vol. 61, No. 1, pp. 148-156. print.

CODEN: KDYIA5. ISSN: 0085-2538.

Article

English

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PREV200000501199

TI Induction of apoptosis by glyoxal in human embryonic lung epithelial cell  
line L132.  
AU Kasper, Michael [Reprint author]; Roehlecke, Cora; Witt, Martin;  
Fehrenbach, Heinz; Hofer, Andreas; Miyata, Toshio; Weigert, Cora; Funk,  
Richard H. W.; Schleicher, Erwin D.  
CS Medical Faculty, Institute of Anatomy, Technical University of Dresden,  
Fetscherstr. 74, D-01307, Dresden, Germany  
SO American Journal of Respiratory Cell and Molecular Biology, (October,  
2000) Vol. 23, No. 4, pp. 485-491. print.  
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